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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,270	12/06/2001	Harold J. Plourde JR.	A-7182	5626
	7590 08/19/200 ATLANTA, INC.	EXAMINER		
INTELLECTUAL PROPERTY DEPARTMENT 5030 SUGARLOAF PARKWAY LAWRENCEVILLE, GA 30044			NGUYEN BA, HOANG VU A	
			ART UNIT	PAPER NUMBER
			2623	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOmail@sciatl.com

	Application No.	Applicant(s)				
	10/010,270	PLOURDE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hoang-Vu A. Nguyen-Ba	2623				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply	/ IO OFT TO EVEIDE - MONTH!	0) 0D THIRTY (00) BANG				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>30 M</u>	av 2008					
	action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-3 and 5-47</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3 and 5-47</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	αιστι πρριισαιιστι				

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DETAILED ACTION

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1. This action is responsive to the request for reconsideration filed May 30, 2008.

2. Claims 1-3 and 5-47 are pending. Claims 1, 23, 24 and 46 are independent claims.

Response to Arguments

3. Applicants' arguments have been fully considered and they are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made applying the art of record Pierre in view of a different reference from Ellis et al. which incorporates the disclosure of the feature alleged absent in the previous Ellis et al. reference.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 1-3 and 5-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,678,463 to Pierre et al. ("Pierre") in view of U.S. Patent Application Publication No. 2002/0174430 by Ellis et al. ("Ellis'4430").

It is noted that while Ellis '4430 postdates the instant application, Ellis '4430 incorporates in its entirety the disclosure of U.S. Provisional Application No. 60/290,709, which, filed on May 14, 2001, pre-dates the instant application.

It is further noted that hereinafter the use of the clause "see at least" should be interpreted that the cited portions/figures that follow the clause are not the only portions/figures that are considered to be relevant. Should Applicant find that the cited portions/figures are not relevant, other portions of the disclosure/figures of the prior art reference will be provided as additional

evidence of and/or context to the relevancy of the previously cited portions/figures as may be necessary. Since the evidence is from the same reference, the introduction of the additional evidence in response to Applicant's arguments should not therefore be construed as that of new grounds of rejection.

Claim 1

Pierre discloses a system (see at least FIG. 2) for managing the allocation and storage of media content instance files in a hard disk of a storage device coupled to a media client device in a subscriber television system, comprising:

a memory for storing logic (see at least FIG. 2, item 16);

a buffer space in the hard disk for buffering media content instances as buffered media content instance files (see at least FIGs. 4-6, item 90); and

a processor (see at least FIGs. 2-3, item 30) configured with the logic to track the size of permanent media content instance files and the buffered media content instance files to provide indication of available free space (see at least FIG. 7, steps 106, 120, 140; 6:7-7:64).

Pierre does not specifically disclose that the indication of available space is a visual indication of an amount of available free space, such that the indication is independent of the buffer space.

However, in an analogous art, Ellis'4430 incorporates the disclosure of a visual indication of an amount of available free space (see FIGs. 19-20 in the provisional application no. 60/290,709 filed May 14, 2001, from which Ellis'4430 claims priority). It is noted that the "Recording Space Available: 14 hrs" in FIGs. 19 and 20 does not appear to be dependent upon buffer space.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Pierre with Ellis'4430's feature because the use of Ellis'4430 feature would help a user of Pierre determine whether the PVR has enough memory to store the desired program.

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Claim 2

The rejection of base claim 1 is incorporated. Pierre further discloses wherein the processor is further configured with the logic to provide a user interface, responsive to a user input, wherein the user interface provides the indication of available free space for permanently recording media content instances, wherein the permanently recorded media content instances are configured as the permanently recorded media content instance files (see at least 4:44-50; FIG. 7, step 144).

Claim 3

The rejections of base claim 1 and intervening claim 2 are incorporated. The combination Pierre-Ellis'4430 further discloses wherein the permanently recorded media content instance files can be deleted from the storage device (Pierre; see at least FIG. 7, step 150).

Claim 4 (previously canceled)

Claim 5

The rejections of base claim 1 and intervening claim 2 are incorporated. The combination Pierre-Ellis'4430 further discloses *wherein the permanently recorded media content is from the buffer space* (Pierre; see at least 6:37-7:39).

Claim 6

The rejections of base claim 1 and intervening claim 2 are incorporated. The combination Pierre-Ellis'4430 further discloses wherein the permanently recorded media content is a scheduled recording initially written to non-buffer space (Pierre; see at least 6:37-7:39).

Claim 7

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the buffer space, the available free space, and permanently recorded space are located on the hard disk (Pierre; see at least 6:37-43).

Claim 8

The combination Pierre-Ellis'4430 further discloses wherein the buffer space and permanently recorded space are allocated from the free space on the hard disk (Pierre; see at least 6:37-9:32).

Claim 9

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the buffer space and permanently recorded space have physical locations on the hard disk (Pierre; see at least 6:37-8:38).

Claim 10

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the buffer space and the available free space is measured in units of time (Pierre; see at least 6:9-22).

Claim 11

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the buffer space and the available free space is measured in units of hard disk space (Pierre; see at least FIGs. 4-6).

Claim 12

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the processor is further configured with the logic to convert analog broadcast media content instances, received at a communications interface, into digitally compressed media content instances stored in a buffer (Pierre; see at least 5:27-30).

Claim 13

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the processor is further configured with the logic to buffer an analog signal

received at a connector from a consumer electronics device, as a digitally compressed media content instance (Pierre; see at least 3:61-4:8).

Claim 14

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the processor is further configured with the logic to buffer digital broadcast media content instances, received at a communications interface, as digitally compressed media content instances (Pierre; see at least 3:61-4:8).

Claim 15

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the processor is further configured with the logic to buffer digital media-on-demand media content instances, received at a communications interface from a remote server, as digitally compressed media content instances (Pierre; see at least 3:61-4:8; 4:20-29).

Claim 16

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the processor is further configured with the logic to buffer digital media content instances, received at a digital communications port from a local network, as digitally compressed media content instances (Pierre; see at least 3:61-4:14).

Claim 17

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the processor is further configured with the logic to buffer digital media content instances, received at a digital communications port from a local device, as digitally compressed media content instances (Pierre; see at least 3:61-4:14).

Claim 18

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 does not specifically disclose *wherein the processor is further configured with the logic to determine*

the available free space after subtracting buffer space capacity from total disk space. However, this logic is deemed inherent to Pierre because Pierre does disclose the step of determining whether there is sufficient contiguous space in storage device for the entire program (FIG. 7, step 106) and for remainder of the program (FIG. 7, step 120). Without subtracting buffer space capacity from total disk space, the above determining step would not be possible.

Claim 19

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 does not specifically disclose wherein the processor is configured with the logic to reduce the available free space by the amount of the space used for the permanent media content instance files. However, the reducing the available free space is deemed not only inherent but an unpatentable feature since this step is a direct result of the step of saving a permanent media content instance file. If the size of the new permanent media content instance file is larger than the existing one, then the result will be the reduction of the available free space.

Claim 20

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the processor is configured with the logic to increase the available free space by the amount of the space recovered from a deleted permanent media content instance files (Pierre; see at least FIG. 7, step 116, 118, 128, 150, 148).

Claim 21

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the indication of the free space available is configured in time of space available for the permanent media content instance files (Pierre; see at least 6:9-22).

Claim 22

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the free space indication is unaffected by writes to and deletions from the buffer space (Pierre; see at least 6:4-7:39).

Since Claim 23 is an independent claim that is a combination of Claims 1-22, the respective rejections are thus applied.

Claim 24

Pierre discloses:

buffering media content instances into buffer space as buffered media content instance files (see at least FIGs. 4-6, items 90);

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tracking the size of permanent media content instance files and buffered media content instance files (see at least FIG. 7, steps 106, 120, 140; 6:7-7:64); and providing an indication of available free space (see at least FIG. 7, steps 106, 120, 140; 6:7-7:64).

Pierre does not specifically disclose that the indication of available space is a <u>visual</u> indication of an amount of available free space, such that the indication is independent of the buffer space.

However, in an analogous art, Ellis'4430 incorporates the disclosure of a visual indication of an amount of available free space (see FIGs. 19-20 in the provisional application no. 60/290,709 filed May 14, 2001, from which Ellis'4430 claims priority). It is noted that the "Recording Space Available: 14 hrs" in FIGs. 19 and 20 does not appear to be dependent upon buffer space.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Pierre with Ellis'4430's feature because the use of Ellis'4430 feature would help a user of Pierre determine whether the PVR has enough memory to store the desired program.

Claim 25

The rejection of base claim 24 is incorporated. Since Claim 25 recites the same feature of Claim 2, the same rejection is thus applied.

The rejections of base claim 24 and intervening claim 25 are incorporated. Since Claim 26 recites the same feature of Claim 3, the same rejection is thus applied.

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Claim 27

The rejections of base claim 24 and intervening claim 25 are incorporated. Since Claim 27 recites the same feature of Claim 4, the same rejection is thus applied.

Claim 28

The rejections of base claim 24 and intervening claim 25 are incorporated. Since Claim 28 recites the same feature of Claim 5, the same rejection is thus applied.

Claim 29

The rejections of base claim 24 and intervening claim 25 are incorporated. Since Claim 29 recites the same feature of Claim 6, the same rejection is thus applied.

Claim 30

The rejection of base claim 24 is incorporated. Since Claim 30 recites the same feature of Claim 7, the same rejection is thus applied.

Claim 31

The rejection of base claim 24 is incorporated. Since Claim 31 recites the same feature of Claim 8, the same rejection is thus applied.

Claim 32

The rejection of base claim 24 is incorporated. Since Claim 32 recites the same feature of Claim 9, the same rejection is thus applied.

The rejection of base claim 24 is incorporated. Since Claim 33 recites the same feature of Claim 10, the same rejection is thus applied.

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Claim 34

The rejection of base claim 24 is incorporated. Since Claim 34 recites the same feature of Claim 11, the same rejection is thus applied.

Claim 35

The rejection of base claim 24 is incorporated. Since Claim 35 recites the same feature of Claim 12, the same rejection is thus applied.

Claim 36

The rejection of base claim 24 is incorporated. Since Claim 36 recites the same feature of Claim 13, the same rejection is thus applied.

Claim 37

The rejection of base claim 24 is incorporated. Since Claim 37 recites the same feature of Claim 14, the same rejection is thus applied.

Claim 38

The rejection of base claim 24 is incorporated. The combination Pierre-Ellis'4430 further discloses buffering digital media-on-demand media content instances, received at a communications interface from a remote server, as digitally compressed media content instances (Pierre; see at least 4:4-8).

Claim 39

The rejection of base claim 24 is incorporated. The combination Pierre-Ellis'4430 further discloses *buffering digital media content instances, received at a digital communications*

port from a local server, as digitally compressed media content instances (Pierre; see at least 4:4-8).

Claim 40

The rejection of base claim 24 is incorporated. The combination Pierre-Ellis'4430 further discloses buffering digital media content instances, received at a digital communications port from a local device, as digitally compressed media content instances (Pierre; see at least 4:4-8).

Claim 41

The rejection of base claim 24 is incorporated. Since Claim 41 recites the same feature of Claim 18, the same rejection is thus applied.

Claim 42

The rejection of base claim 24 is incorporated. Since Claim 42 recites the same feature of Claim 19, the same rejection is thus applied.

Claim 43

The rejection of base claim 24 is incorporated. Since Claim 43 recites the same feature of Claim 20, the same rejection is thus applied.

Claim 44

The rejection of base claim 24 is incorporated. Since Claim 44 recites the same feature of Claim 21, the same rejection is thus applied.

Claim 45

The rejection of base claim 24 is incorporated. Since Claim 45 recites the same feature of Claim 24, the same rejection is thus applied.

Since Claim 46 is an independent claim that is a combination of Claims 24-45, the rejections of these claims are thus applied.

Claim 47

The rejection of base claim 1 is incorporated. The combination Pierre-Ellis'4430 further discloses wherein the processor is further configured with the logic to provide an indication that insufficient free space is available for a requested recording (Pierre; see at least FIG. 7, step 140).

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang-Vu "Antony" Nguyen-Ba whose telephone number is (571) 272-3701. The examiner can normally be reached on Tuesday-Friday from 7:00 am to 5:30 pm.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, John Miller can be reached at (571) 272-7353.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2600 Group receptionist (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

/Hoang-Vu Antony Nguyen-Ba/
Primary Examiner, Art Unit 2623
August 10, 2008